Public Notice

U.S. Army Corps of Engineers

Pittsburgh District

In Reply Refer to Notice No. below US Army Corps of Engineers, Pittsburgh District 1000 Liberty Avenue Pittsburgh, PA 15222-4186

Date: April 12, 2006

Application No. 200600054

Notice No. 06-14

Closing Date: May 12, 2006

- 1. <u>TO ALL WHOM IT MAY CONCERN</u>: The following application has been submitted for a Department of the Army Permit under the provisions of Section 404 of the Clean Water Act (33 U.S.C. 1344).
- 2. <u>APPLICANT</u>: Stream Restoration Incorporated 3016 Unionville Road Cranberry Township, PA 16066
- 3. <u>LOCATION</u>: The project is located in wetlands adjacent to Raccoon Creek, in Smith Township, Washington County, Pennsylvania. Lattitude: 40 22' 12" Longitude 80 21' 44"
- 4. PURPOSE AND DESCRIPTION OF WORK: The applicant is proposing to place a check dam and water intake structure within Raccoon Creek and proposes to impact approximately 4.5 acres of emergent wetland adjacent to Raccoon Creek for the construction of an aerobic acid mine drainage (AMD) treatment wetland which will be used to treat AMD discharge from the JB1 discharge. The applicant is proposing that anticipated improved water quality along Raccoon Creek and the constructed treatment wetland will offset the lost functions and values of the existing wetland. The applicant has not provided a compensatory mitigation plan at this time. Drawings of the proposed project are attached to this notice.
- 5. <u>ENCROACHMENT PERMIT</u>: The Pennsylvania Department of Environmental Protection has waived the requirement to obtain State 401 Water Quality Certification by determining the project meets the Category 1 waiver criteria as published in The Pennsylvania Bulletin on December 14, 1996.
- 6. <u>IMPACT ON NATURAL RESOURCES</u>: The District Engineer has consulted the most recently available information and has determined that the project is not likely to affect the continued existence of any endangered species or threatened species, or result in the destruction or adverse modification of habitat of such species which has been determined to be critical. This

Public Notice serves as a request to the U. S. Fish and Wildlife Service for any additional information they may have on whether any listed or proposed to be listed endangered or threatened species may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1972 (as amended).

- 7. <u>IMPACT ON CULTURAL RESOURCES</u>: The National Register of Historic Places has been consulted, and it has been determined that there are no properties currently listed on the register which would be directly affected by the proposed work. If we are made aware, as a result of comments received in response to this notice, or by other means, of specific archeological, scientific, prehistorical, or historical sites or structures which might be affected by the proposed work, the District Engineer will immediately take the appropriate action necessary pursuant to the National Historic Preservation Act of 1966 Public Law 89-665 as amended (including Public Law 96-515).
- 8. <u>PUBLIC INVOLVEMENT</u>: Any person may request, in writing, within the comment period specified in the paragraph below entitled "RESPONSES," that a public hearing be held to consider this application. The requests for public hearing shall state, with particularity, the reasons for holding a public hearing.
- Interested parties are invited to state any EVALUATION: objections they may have to the proposed work. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue proposals must be balanced against its reasonably from the foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of The Corps of Engineers is soliciting comments from the people. the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this To make this decision, comments are used to assess proposal. impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an

CELRP-OP-F Public Notice No. 06-14

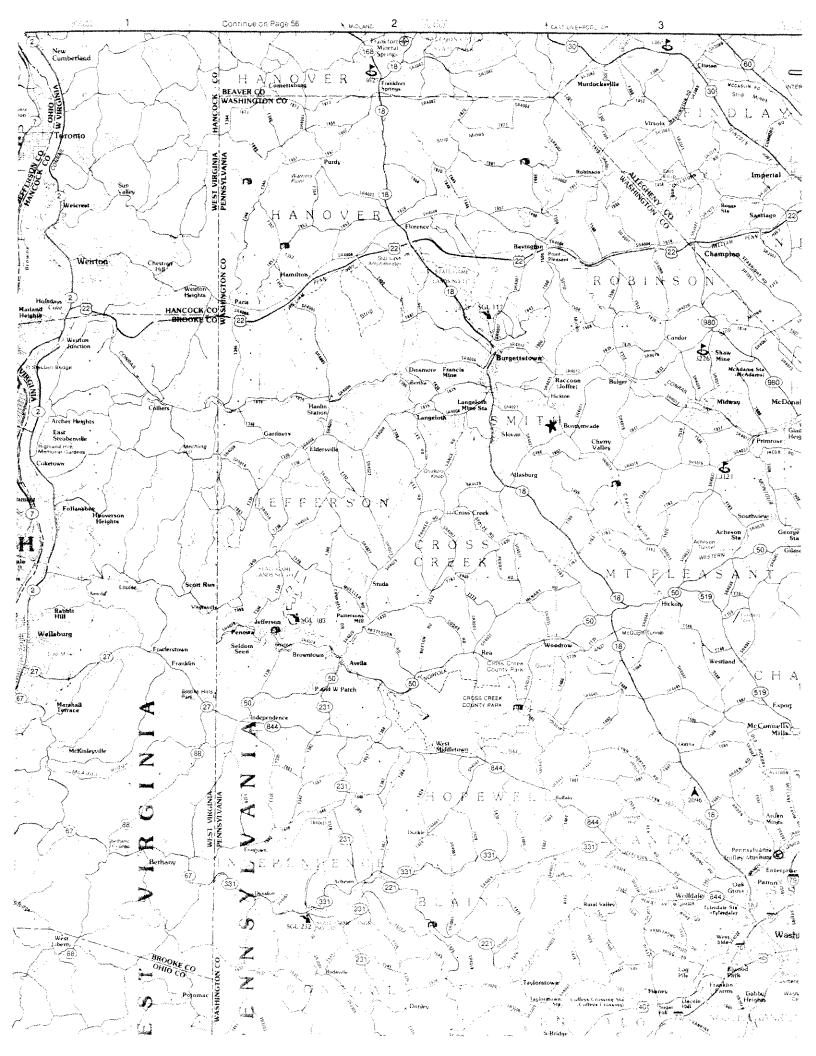
Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the overall public interest of the proposed activity. The evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act (40 CFR Part 230).

10. <u>RESPONSES</u>: A permit will be granted unless its issuance is found to be contrary to the public interest. Written statements concerning the proposed activity should be received in this office on or before the closing date of this Public Notice in order to become a part of the record and to be considered in the final determination. Any objections which are received during this period may be forwarded to the applicant for possible resolution before the determination is made whether to issue or deny the requested DA Permit. All responses to this notice should be directed to the Regulatory Branch, attn Christina L. Schroeder, at the above address. Please refer to CELRP-OP-F 200600054 in all responses.

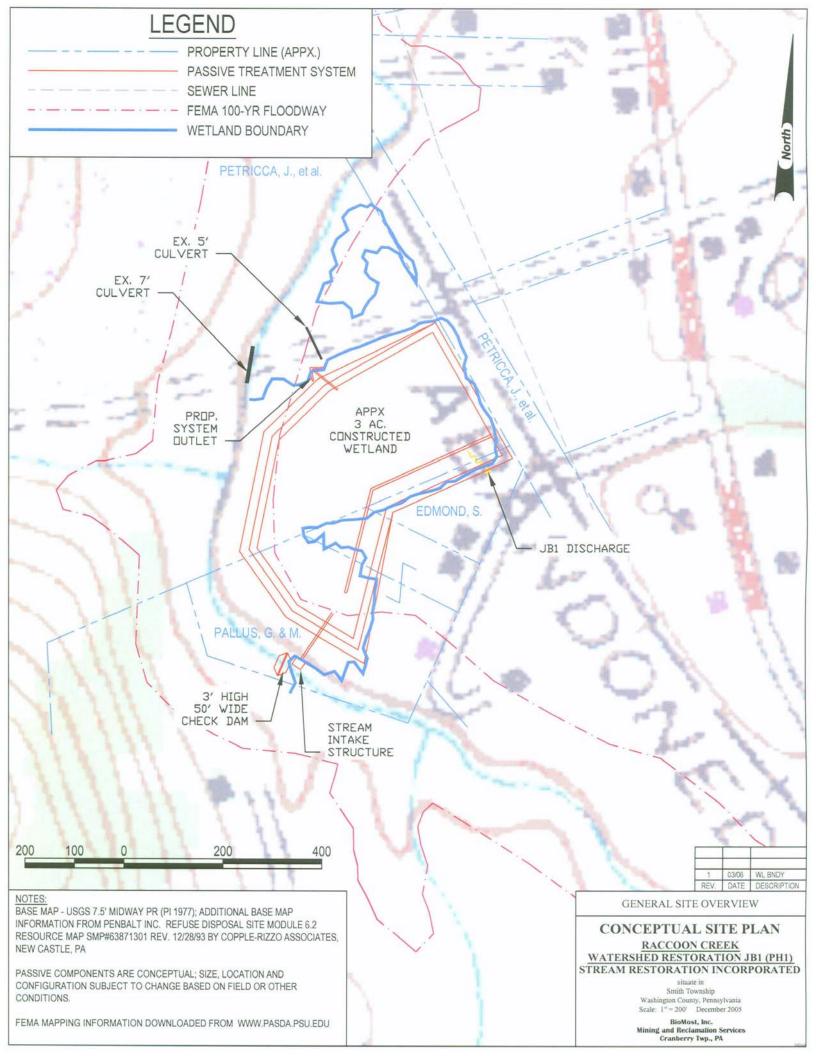
FOR THE DISTRICT ENGINEER:

/signed/

Michael J. Cummings, Jr. Chief, Regulatory Branch



Copyright (C) 2001, Maptech, Inc.



Sample Point	Date	Method of	Flow	Field	Lab	Spec. co		Alk. (F)	Alk. (L)	Acid.	Fe	Fe D. Fe	Mn D.Mn		Al D, Al	l Sulfate	Š
JB-1B	12/7/2005	Flow Meas. (gpm) pH	(gpm)	PH 4 8	48: 46:	(umnos/cm)	1emp (C)	(mg/L)	(mg/L)	(mg/L)	(mg/L)		(mg/L) (m		1	L) (mg/L)	(mg/L)
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	Min			4.8	4.8 4.6	1708	1 2		7 8	240	1		2.4		14.6	1063	8
	× × ×			4	4 8 4 6	1708	1.01	· -		240	:		2.4		14.6	1063	· · · · ·
:	Ava	:		4	4.8 4.6	1708	12		1 0	240			2.4		14 G	1063) (C
	Range			0.0	0.0 0.0	0	0	0		0	:		0.0	 :	0.0		
	1																

Abandoned Mine Discharge; Sampled at watercourse of JB1 discharge just prior to confluence with side channel of Raccoon Creek Description:

JB-1 1/11/1995 Measured 4.6 JB-1 2/24/1995 Measured 4.5 JB-1 3/17/1995 Measured 1187 4.6 JB-1 4/13/1995 Measured 1186 4.6 JB-1 5/4/1995 Measured 1186 4.6 JB-1 5/4/1995 Measured 876 4.8 JB-1 6/13/1995 Measured 672 4.8 JB-1 10/26/1995 Measured 672 4.8 JB-1 11/11/1995 Measured 786 4.4 JB-1 11/11/1995 Measured 786 4.4 JB-1 11/11/1996 Measured 736 4.6 JB-1 11/11/1996 Measured 736 4.6 JB-1 11/11/1996 Measured 736 4.6 JB-1 11/11/1996 Measured 736 4.7 JB-1 11/11/1996 Measured 7.7 4.7 JB-1	Sample Point	Date	Method of Flow Meas.	Flow (gpm)	Field pH	Lab pH	Spec. cond. (umhos/cm)	Field Temp (C)	Alk. (Field) (mg/L)	Alk. (lab) (mg/L)	Acidity (mg/L)	fron (mg/L)	Manganese (mg/L)	Aluminum (mg/L)	Sulfate (mg/L)	Susp. Solids (mg/L)
2/24/1995 Measured 1197 4/13/1995 Measured 1197 6/13/1995 Measured 1186 6/13/1995 Measured 876 8/8/1995 Measured 672 8/8/1995 Measured 672 9/11/1995 Measured 672 10/26/1995 Measured 778 11/11/1996 Measured 776 11/11/1996 Measured 1066 6/6/1996 Measured 1043 8/1/1996 Measured 627 10/24/1996 Measured 627 11/18/1996 Measured 627 11/18/1996 Measured 627 11/18/1996 Measured 627 11/18/1997 Measured 627 11/23/1997 Measured 627 2/25/1997 Measured 66 5/21/1997 Measured 67 6/24/1997 Measured 67 6/24/1997 Measured 67 6/24/1997 Measured 67 6/24/1997		1/1995	Measured	,		4.6				14	226	69.1	1.8	10.2	830	****
3/17/1995 Measured 1197 4/13/1995 Measured 1186 6/13/1995 Measured 1722 8/8/1995 Measured 876 9/11/1995 Measured 672 10/26/1995 Measured 615 10/26/1995 Measured 788 11/11/1996 Measured 756 2/12/1996 Measured 756 4/9/1996 Measured 1367 6/6/1996 Measured 1043 8/1/1996 Measured 1043 8/1/1996 Measured 627 9/10/1996 Measured 627 10/24/1996 Measured 627 11/8/1997 Measured 1/2/3/1997 4/28/1997 Measured 2/25/1997 4/28/1997 Measured 5/21/1997 4/28/1997 Measured 6/2/1/1997 6/24/1997 Measured 6/2/1/1997		4/1995	Measured			4.5				7	170	53.7	1.6	7.8	737	2
4/13/1995 Measured 1197 5/4/1995 Measured 1186 6/13/1995 Measured 876 8/8/1995 Measured 876 10/26/1995 Measured 615 10/26/1995 Measured 788 11/18/1995 Measured 756 2/12/1996 Measured 967 4/9/1996 Measured 106 6/6/1996 Measured 1043 8/11/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 627 11/230/1996 Measured 627 11/230/1997 Measured 627 12/25/1997 Measured 627 14/28/1997 Measured 62/25/1997 4/28/1997 Measured 66 5/21/1997 Measured 66 6/24/1997 Measured 66 6/24/1997 Measured 67 6/24/1997 Measured 67		7/1995	Measured			4.7			e de la companya del companya de la companya del companya de la co	15	146	46.7	4.1	9.9	618	2
6/13/1995 Measured 1186 6/13/1995 Measured 876 8/8/1995 Measured 672 10/26/1995 Measured 672 10/26/1995 Measured 615 11/11/1995 Measured 788 11/11/1996 Measured 756 2/12/1996 Measured 1267 6/6/1996 Measured 1362 6/6/1996 Measured 738 8/1/1996 Measured 738 10/24/1996 Measured 627 11/8/1996 Measured 627 11/23/1997 Measured 2/25/1997 4/28/1997 Measured 3/24/1997 4/28/1997 Measured 5/21/1997 6/24/1997 Measured 5/21/1997		3/1995	Measured	1197	\$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.6	A 2011	And A consession of the conses		13	118	43.5	1.5	6.8	57.1	2
6/13/1995 Measured 1122 8/8/1995 Measured 876 9/11/1995 Measured 672 10/26/1995 Measured 615 12/13/1995 Measured 788 11/11/1996 Measured 756 2/12/1996 Measured 967 4/9/1996 Measured 1043 6/6/1996 Measured 627 8/11/1996 Measured 627 11/8/1996 Measured 627 10/24/1996 Measured 627 11/23/1997 Measured 627 12/25/1997 Measured 62/25/1997 12/24/1997 Measured 62/24/1997 12/24/1997 Measured 62/24/1997		4/1995	Measured	1186		4.6		***************************************		12	128	44.0	1,5	7.0	611	2
8/8/1995 Measured 876 9/11/1995 Measured 672 10/26/1995 Measured 663 11/8/1995 Measured 615 12/13/1996 Measured 756 2/12/1996 Measured 756 3/18/1996 Measured 966 6/6/1996 Measured 1043 8/1/1996 Measured 738 9/10/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 627 12/30/1997 Measured 627 12/30/1997 Measured 627 12/25/1997 Measured 62/25/1997 4/28/1997 Measured 6/24/1997 4/28/1997 Measured 6/24/1997 6/24/1997 Measured 6/24/1997		3/1995	Measured	1122		4.7			70 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	41	148	48.0	1.7	7.2	603	8
9/11/1995 Measured 672 10/26/1995 Measured 615 11/8/1995 Measured 788 12/13/1996 Measured 756 2/12/1996 Measured 756 4/9/1996 Measured 1267 6/6/1996 Measured 1362 6/6/1996 Measured 738 8/1/1996 Measured 627 10/24/1996 Measured 627 10/24/1996 Measured 627 11/8/1997 Measured 627 12/25/1997 Measured 627 14/28/1997 Measured 627 6/24/1997 Measured 627		3/1995	Measured	876		4.8		To the farmer Annexes and the second		16	138	51.1	1.6	0.7	633	4
10/26/1995 Measured 963 11/8/1995 Measured 788 12/13/1995 Measured 756 2/12/1996 Measured 756 3/18/1996 Measured 967 4/9/1996 Measured 1267 5/21/1996 Measured 1362 6/6/1996 Measured 627 11/8/1996 Measured 627 11/8/1996 Measured 627 12/30/1997 Measured 627 12/25/1997 Measured 62/25/1997 4/28/1997 Measured 62/25/1997 4/28/1997 Measured 62/24/1997 6/24/1997 Measured 62/24/1997		1/1995	Measured	672												
11/8/1995 Measured 615 12/13/1995 Measured 788 11/11/1996 Measured 756 2/12/1996 Measured 1267 4/9/1996 Measured 1267 5/21/1996 Measured 1043 6/6/1996 Measured 738 8/1/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 627 12/26/1997 Measured 738 11/23/1997 Measured 627 2/25/1997 Measured 627 4/28/1997 Measured 627 6/24/1997 Measured 66/24/1997 6/24/1997 Measured 6/24/1997		26/1995	Measured	963		4.9	To the first the same of the formation of the same of	, to constitution and the constitution of the		18	180	56.4		6.5	747	41
12/13/1995 Measured 788 1/11/1996 Measured 756 3/18/1996 Measured 967 4/9/1996 Measured 966 5/21/1996 Measured 1362 5/21/1996 Measured 1043 8/11/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 627 12/30/1996 Measured 627 12/30/1997 Measured 627 12/25/1997 Measured 627 12/25/1997 Measured 627 2/25/1997 Measured 627 3/24/1997 Measured 627 12/25/1997 Measured 627 3/24/1997 Measured 627 3/24/1997 Measured 627		8/1995	Measured	615		4.8				15	194	63.5	1.9	6.5	722	15
1/11/1996 Measured 850 2/12/1996 Measured 756 3/18/1996 Measured 967 4/9/1996 Measured 1267 6/6/1996 Measured 1362 6/6/1996 Measured 738 8/1/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 627 12/30/1996 Measured 627 12/25/1997 Measured 62/25/1997 4/28/1997 Measured 6/24/1997 6/24/1997 Measured 6/24/1997		13/1995	Measured	788		5.1				26	132	53.0	1.5	4.6	715	2
2/12/1996 Measured 756 3/18/1996 Measured 967 4/9/1996 Measured 1267 5/21/1996 Measured 1362 6/6/1996 Measured 738 8/1/1996 Measured 738 10/24/1996 Measured 627 11/8/1996 Measured 627 12/30/1997 Measured 7/25/1997 12/25/1997 Measured 7/25/1997 4/28/1997 Measured 5/21/1997 6/24/1997 Measured 6/24/1997 Measured 6/24/1997		1/1996	Measured	850		5.3				24	124	59.1	1.6	4.7	780	8
3/18/1996 Measured 967 4/9/1996 Measured 1267 5/21/1996 Measured 1362 6/6/1996 Measured 1362 7/1/1996 Measured 738 8/11/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 627 12/30/1996 Measured 627 12/30/1997 Measured 627 12/30/1997 Measured 627 12/25/1997 Measured 62/25/1997 Measured 62/24/1997 Measured 6		2/1996	Measured	756	Q											
4/9/1996 Measured 1267 5/21/1996 Measured 1362 6/6/1996 Measured 1362 7/1/1996 Measured 738 9/10/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 12/30/1996 Measured 12/30/1996 Measured 12/30/1997 Measured 1/28/1997 Measured 3/24/1997 Measured 5/21/1997 Measured 5/21/1997 Measured 6/24/1997 Measured		8/1996	Measured	2967		4.6				-	190	45.3	7,1	7.4	299	2
5/21/1996 Measured 966 6/6/1996 Measured 1362 7/1/1996 Measured 738 8/1/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 627 12/30/1996 Measured 627 12/26/1997 Measured 62/25/1997 4/28/1997 Measured 62/21/1997 6/24/1997 Measured 66/24/1997		9/1996	Measured	1267	7	4.3				<i>L</i>	194	43.6	1.4	8.5	653	2
6/6/1996 Measured 1362 7/1/1996 Measured 738 9/10/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 12/30/1996 Measured 12/30/1997 Measured 1/2/31/1997 Measured 3/24/1997 Measured 3/24/1997 Measured 5/21/1997 Measured 5/21/1997 Measured 6/24/1997 Measured 6/24/1997 Measured		1/1996	Measured	996		4.4				6	158	40.2	1.5	9.5	682	2
7/1/1996 Measured 1043 8/1/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 627 12/30/1996 Measured 627 12/30/1997 Measured 627 2/25/1997 Measured 627 3/24/1997 Measured 627 6/24/1997 Measured 627 Measured 67/21/1997 Measured		3/1996	Measured	1362						6	168	42.9	9	9.7	658	2
8/1/1996 Measured 738 9/10/1996 Measured 627 10/24/1996 Measured 627 11/8/1996 Measured 12/30/1997 Measured 2/25/1997 Measured 3/24/1997 Measured 4/28/1997 Measured 5/21/1997 Measured 6/24/1997 Measured 6/24/1997 Measured		1/1996	Measured	1043		4.6				12	170	41.4	1.5	9.0	612	12
9/10/1996 Measured 627 10/24/1996 Measured 11/8/1996 Measured 12/30/1997 Measured 2/25/1997 Measured 3/24/1997 Measured 4/28/1997 Measured 6/24/1997 Measured		1/1996	Measured	738						12	128	38.4	4.	7.4	616	2
10/24/1996 Measured 11/8/1996 Measured 12/30/1997 Measured 1/25/1997 Measured 3/24/1997 Measured 4/28/1997 Measured 5/21/1997 Measured 6/24/1997 Measured 6/24/1997 Measured		0/1996	Measured	627		4.7				13	170	42.1	4.4	6.5	969	16
11/8/1996 Measured 12/30/1996 Measured 17/23/1997 Measured 2/25/1997 Measured 4/28/1997 Measured 5/21/1997 Measured 6/24/1997 Measured		24/1996	Measured			4.7	Pt 14 mm 14		The same of the tendent and the same of th	14	156	48.6	1,6	6.0	751	34
12/30/1996. Measured 1/23/1997. Measured 2/25/1997. Measured 3/24/1997. Measured 4/28/1997. Measured 5/21/1997. Measured 6/24/1997. Measured		8/1996	Measured	y		4.8	A - A			16		46,4	1.4	5.8	662	12
1/23/1997 Measured 2/25/1997 Measured 3/24/1997 Measured 4/28/1997 Measured 5/21/1997 Measured 6/24/1997 Measured		30/1996	Measured	-		4.7	:			4	140	40.8	1.5	6.8	670	
2/25/1997 Measured 3/24/1997 Measured 4/28/1997 Measured 5/21/1997 Measured 6/24/1997 Measured		3/1997	Measured			4.7				41	124	30.4	1.2	5.1	730	2
3/24/1997 Measured 4/28/1997 Measured 5/21/1997 Measured 6/24/1997 Measured		2/1997	Measured			4.6				12	118	27.6	1.3	5.1	626	2
4/28/1997 Measured 5/21/1997 Measured 6/24/1997 Measured		4/1997	Measured			4.5	Westernia A VA VA VA V VA VA VA VA VA VA VA VA VA			-	92	25.3	1.2	5.3	496	10
5/21/1997 Measured 6/24/1997 Measured		8/1997	Measured		***************************************	4.6				12	116	23.9	1.2	5.5	586	2
6/24/1997 Measured		1/1997	Measured			4.7				15	414	26.4	1,3	5.2	753	2
		4/1997	Measured		A A	4.6				10	124	29.4	1,3	0.9	523	10

Be-1 (7147) 89 (Absoluted) 4.9 17 15 80.1 13 4.6 685 Be-1 (1747) 89 (Absoluted) 3.4 4.6 4.6 1.6 4.6	Sample Point	Date	Method of Flow Meas.	Flow (gpm)	Field pH	Lab рH	Spec. cond. (umhos/cm)	Field Temp (C)	Alk. (Field) (mg/L)	Alk. (lab) (mg/L)	Acidity (mg/L)	Iron (mg/L)	Manganese (mg/L)	Aluminum (mg/L)	Sulfate (mg/L)	Susp. Solids (mg/L)
107241991 Measured 5.1 6.0 4.19 11.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.6 4.7 4.6 4.6 4.7 4.6 4.7 4.6 4.7 4.6 4.7 4.6 4.7 4.6 4.7 4.6 4.7	JB-1	7/14/1997	Measured	***********		4.9				11	156	30.1	1.3	4		9
2/11/1998 Massured 49 17 7/8 342 12 38 4/15/1998 Massured 49 41 78 32 13 45 6/15/1998 Massured 50 47 10 34 13 45 10/29/1998 Mesured 50 52 60 343 11 34 11/27/1998 Mesured 50 52 60 343 11 36 11/27/1999 Mesured 53 62 62 447 14 36 11/27/1999 Mesured 55 60 38 56 14 47 6/17/1999 Mesured 67/4 48 7 14 47 6/17/1999 Mesured 67/4 48 7 14 47 6/17/1999 Mesured 67/4 5 62 62 36 14 47 6/17/1999 Mesured 67/4 67 62 67 </td <td><u>т</u>-</td> <td>10/23/1997</td> <td>Measured</td> <td></td> <td></td> <td>5.1</td> <td></td> <td></td> <td></td> <td>18</td> <td>160</td> <td>41.8</td> <td></td> <td></td> <td>626</td> <td>4</td>	<u>т</u> -	10/23/1997	Measured			5.1				18	160	41.8			626	4
4/16/1998 Massured 4.9 118 1404 35.0 15.2 4.5 6/11/1998 Massured 3.7 4.7 4.7 1.0 35.2 1.1 4.5 1/10/29/1798 Massured 5.5 5.2 4.7 1.4 3.8 1/10/29/1798 Messured 5.3 5.2 6.7 1.6 4.5 1/10/29/1799 Messured 5.3 5.2 6.7 1.6 4.5 1/10/29/1799 Messured 1.05 6.7 1.6 4.7 4.7 1/10/29/1799 Messured 1.05 6.2 6.2 1.6 4.7 4.7 1/11/19/19/19/19/19/19/19/19/19/19/19/19	JB-1	2/11/1998	Measured			4.9				17	78	34.2			575	36
6/10/1999 Measured 47 7 7 7 8 34.3 1.1 5.4 (9/24/1998) Measured 3.0 5.2 4.7 1.4 3.4 (10/24/1998) Measured 3.5 5.2 4.4 1.4 4.5 (10/24/1998) Measured 3.5 5.2 4.6 4.7 4.1 3.6 (10/24/1998) Measured 3.5 5.2 6.7 1.6 4.3 4.1 <td< td=""><td>-8-1</td><td>4/16/1998</td><td>Measured</td><td></td><td>2,2,2</td><td>4.9</td><td>Married and the state of the st</td><td></td><td></td><td>18</td><td>104</td><td>33.0</td><td></td><td>4</td><td>574</td><td>2</td></td<>	-8-1	4/16/1998	Measured		2,2,2	4.9	Married and the state of the st			18	104	33.0		4	574	2
B/2/4/1996 Measured 50 47 11 3.4 1/2/16/1996 Measured 53 62 44.7 14 3.8 1/2/16/1996 Measured 53 63 42 12 14 3.8 1/2/16/1996 Measured 55 6 42 16 4.5 4.1 2/2/1999 Measured 105 4.8 6 7 1.2 4.7 4.7 4.7 4.7 4.2 4.1 4.2 4.1 4.2 4.1 4.2 4.1 4.2 4.1	JB-1	6/10/1998	Measured			4.7				12	104	35.2		and the same of th	588	10
(10728)1998 Measured 5.2 9.2 44.7 1.4 3.8 (10728)1998 Measured 5.3 5.3 102 56.7 1.6 4.5 2 (287)999 Measured 5.0 6.2 4.9 1.5 4.4 3 (287)999 Measured 1.05 4.8 6.7 1.6 4.7 4 (147)999 Measured 1.05 4.8 6.7 1.4 4.7 5 (27)1999 Measured 1.05 4.8 6.7 1.4 4.7 6 (27)1999 Measured 1.05 4.9 1.6 4.7 4.7 7 (287)999 Measured 1.05 5.2 6.2 1.3 4.7 7 (287)999 Measured 5.2 5.2 8.9 3.9 1.4 4.7 1 (17)9799 Measured 5.2 5.2 8.9 4.4 1.4 3.8 1 (17)79709 Measured 4.9 5.5 5.2 1.4 4.3 1.4	B -1	8/24/1998	Measured		***************************************	5.0	***************************************			22	80	34.3		3.	639	12
12/16/1996 Measured 5.3 9.2 102 56.7 16 4.5 1/2/16/1996 Measured 5.3 5.3 8.6 52.4 1.5 4.1 2/8/1999 Measured 1.05 4.8 7.7 1.2 4.3 5/12/1999 Measured 1.05 4.9 1.6 8.2 4.3 4.7 6/3/1999 Measured 1.05 4.9 1.0 8.2 4.7 4.7 6/3/1999 Measured 1.05 4.9 1.2 4.9 1.2 4.7 6/3/1999 Measured 6.24 6.2 6.2 6.2 1.4 4.5 1/12/1999 Measured 6.24 6.2 6.2 6.2 1.4 4.5 1/12/1999 Measured 6.2 6.2 6.2 6.2 6.2 1.4 4.5 1.4 3.6 1/12/1999 Measured 4.0 5.2 6.2 6.2 6.2 6.2 6.2	JB-1	10/29/1998	Measured			5.2				24	92	44.7	1.4	33	685	9
1/27/1999 Measured 5.3 9.2 9.6 5.2 1.5 4.1 2/8/1999 Measured 1.0 5.2 9.2 4.9 1.15 4.3 3/8/1999 Measured 1105 4.8 1.0 1.0 1.0 4.7 1.1 4.7 5/17/1999 Measured 15.1 6.4 9.0 3.7 1.1 4.5 1.3 3.0 6/3/1999 Measured 15.2 4.9 1.7 8.2 3.6 1.3 4.7 6/3/1999 Measured 15.2 6.2 8.8 3.8 1.1 4.5 6/3/1999 Measured 6.74 5.2 8.0 3.6 1.3 3.5 1/1/2000 Measured 4.8 5.2 8.0 3.6 4.4 3.6 1/1/2000 Measured 4.8 5.5 8.4 4.9 1.4 3.6 1/1/2000 Measured 4.8 5.2 8.4 4.9 1	<u> </u>	12/16/1998	Measured			5.3				2	102	56.7	1.6		747	2
2M/1999 Measured 52 49 49 49 49 43 3M/1999 Measured 10 50 49 49 15 47 4/14/1999 Measured 1105 48 9 49 13 47 5/12/1999 Measured 151 49 16 86 33.7 1.4 47 6/3/1999 Measured 151 6.3 8 36.2 1.3 47 1/12/1999 Measured 674 5.2 8 38.5 1.3 4.5 1/13/1999 Measured 674 5.2 8 38.5 1.4 4.5 1/13/1999 Measured 675 5 8 4.6 1.4 4.5 1/13/1909 Measured 676 5 8 4.7 1.4 3.5 1/13/1909 Measured 456 5 8 4.2 1.4 3.1 1/13/1900 Measured 456	JB-1	1/27/1999	Measured	Toronto Harris or		5.3	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			28	86	52.4	1,5		629	2
34/41999 Measured 105 48 19 64 397 1.3 3.9 4/141999 Measured 1105 4.8 6.0 37.7 1.4 4.7 5/121999 Measured 1515 4.9 6.0 37.7 1.4 4.7 6/31999 Measured 123 4.9 6.0 2.0 88 38.5 1.3 4.7 6/31999 Measured 6.29 5.2 80 38.0 1.1 4.5 10/19/1999 Measured 4.66 5.3 5.2 1.4 3.6 11/2/1999 Measured 4.66 5.3 4.45 1.4 3.6 11/2/1999 Measured 4.66 5.3 5.2 1.4 3.7 11/2/1999 Measured 4.66 5.3 5.2 1.4 3.1 2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/	JB-1	2/8/1999	Measured			5.2				26	92	49.9			695	2
4/14/1999 Measured 1105 4.8 16 80 37.7 1.4 4.7 5/12/1999 Measured 1515 4.9 16 82 36.2 1.3 4.7 6/3/1999 Measured 1515 4.9 4.9 17 82 36.6 1.4 4.5 7/28/1999 Measured 674 5.2 6.2 36.6 1.4 4.5 9/9/1999 Measured 672 5.2 80 39.0 1.3 3.6 10/19/1999 Measured 67.6 5.2 8.9 44.5 1.4 3.6 11/2/1999 Measured 46.6 5.3 6.4 49.3 1.4 3.6 11/2/1999 Measured 46.0 5.5 6.4 49.3 1.4 3.6 11/2/1909 Measured 46.0 5.5 6.4 49.3 1.4 3.1 2/2/2000 Measured 48.0 5.5 5.2 6.4 49.3	JB-1	3/9/1999	Measured			5.0	, A Marian			19	84	39.7	1.3	É	514	9
\$I/12/1999 Measured 1515 4.9 16 82 36.2 1.3 4.7 \$I/21/1999 Measured 1233 4.9 17 82 36.6 1.4 4.5 \$I/28/1999 Measured 674 5.1 5.2 88 38.5 1.3 3.9 \$I/28/1999 Measured 674 5.2 5.2 80 39.0 1.3 3.5 \$I/21/1999 Measured 55.4 5.2 2 89 44.5 1.4 3.6 \$I/21/1999 Measured 466 5.3 5 4.4 4.9 1.4 3.6 \$I/21/1999 Measured 480 5.5 3.4 4.9 4.7 1.4 3.6 \$I/21/1999 Measured 480 5.5 5.3 4.0 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4	JB1	4/14/1999	Measured	1105		4.8				16	80	37.7	1,4		582	8
6/3/1999 Measured 674 4.9 17 82 36.6 14 4.5 7/28/1999 Measured 674 5.1 20 88 38.5 1.3 3.9 9/9/1999 Measured 674 5.1 6.1 20 88 38.5 1.3 3.5 10/19/1999 Measured 629 5.2 80 39.0 1.3 3.6 11/2/1999 Measured 466 5.3 2 45.3 1.4 3.6 11/2/1999 Measured 480 5.5 8 47.2 1.4 3.6 11/2/1999 Measured 480 5.5 9 4.0 8.6 1.4 3.1 11/2/1900 Measured 480 5.5 3 1.4 3.1 4.0 1.4 3.1 2/2/2000 Measured 152 5.3 1.0 4.6 1.4 3.1 4.2 1.4 3.4 6/8/2000 Measured	18-1	5/12/1999	Measured	1515		4.9				16	82	36.2			558	7
7/28/1999 Measured 674 5.1 3.9 13 3.5 8/9/1999 Measured 629 5.2 80 39.0 1.3 3.5 10/19/1999 Measured 524 5.2 80 39.0 1.3 3.6 10/19/1999 Measured 365 5.2 80 39.0 1.4 3.6 11/2/1999 Measured 480 5.5 9.9 44.5 1.4 3.6 11/2/1999 Measured 480 5.5 9.9 4.9 4.4 49.3 1.5 3.8 11/2/1999 Measured 480 5.5 9.9 4.0 44.0 88 52.6 1.4 3.1 3.4 2/2/2000 Measured 15.2 5.2 9.4 40.0 46.1 1.4 3.4 4/20/2000 Measured 15.2 5.2 9.4 1.0 46.1 1.4 3.4 6/8/2000 Measured 15.5 5.2	JB-1	6/3/1999	Measured	1233				The state of the s		11	82	36.6		4	552	9
8/9/1999 Measured 629 5.2 80 39.0 1.3 3.5 9/9/1999 Measured 524 5.2 80 39.0 1.4 3.6 10/19/1999 Measured 466 5.3 6.3 44.5 1.4 3.6 11/2/1999 Measured 466 5.3 6.3 45.3 1.4 3.6 11/2/1999 Measured 466 5.5 6.3 47.2 1.4 3.1 11/2/1909 Measured 480 5.6 8 47.2 1.4 3.1 11/2/2000 Measured 430 5.6 3.3 1.0 46.1 1.2 3.4 3/6/2000 Measured 1552 5.2 6.2 1.4 3.1 4.3 4/20/2000 Measured 1562 5.2 6.2 1.4 3.5 1.4 3.5 6/8/2000 Measured 1168 5.2 7.8 4.3 1.4 3.5 <t< td=""><td><u>, a</u></td><td>7/28/1999</td><td>Measured</td><td>674</td><td></td><td>5.1</td><td></td><td></td><td></td><td>20</td><td>88</td><td>38.5</td><td>-</td><td></td><td>641</td><td>2</td></t<>	<u>, a</u>	7/28/1999	Measured	674		5.1				20	88	38.5	-		641	2
9/9/1999 Measured 524 52 64 44.5 1.4 3.6 10/19/1999 Measured 395 52 92 45.3 1.4 3.6 11/2/1999 Measured 466 5.3 6.2 92 45.3 1.4 3.1 11/2/1999 Measured 480 5.5 6.2 6.2 1.4 49.3 1.5 1.4 3.1 11/1/2000 Measured 480 5.5 6.8 47.2 1.4 3.1 4.3 3.4 3.	JB-1	8/9/1999	Measured	629		5.2				22	80	39.0		<i>ත</i>	601	~
10/19/1999 Measured 396 5.2 45.3 1.4 3.6 11/12/1999 Measured 466 5.3 4.6 49.3 1.5 3.8 11/12/1999 Measured 480 5.5 4.0 46.1 1.4 3.1 21/2/2000 Measured 430 5.5 8 47.2 1.4 3.1 4/20/2000 Measured 629 5.3 8 46.1 1.2 3.4 4/20/2000 Measured 1562 5.2 6.2 1.4 3.4 5/2/2000 Measured 1562 5.2 1.4 3.4 5/2/2000 Measured 1562 5.2 1.4 3.4 5/2/2000 Measured 1168 5 7 1.4 3.5 6/8/2000 Measured 1163 5.2 7 1.4 3.5 7/10/2000 Measured 1370 5.5 7 1.4 4.7 1.4 3.7	JB-1	9/9/1999	Measured	524		5.2				24	94	44.5	***	6	811	2
11/2/1999 Measured 466 5.3 4.6 4.0 1.1 3.4 84 49.3 1.5 3.8 12/2/1999 Measured 480 5.5 4.0 46.1 1.4 3.1 2/2/2/2000 Measured 430 5.5 6.3 1.4 3.4 3/6/2000 Measured 629 5.3 108 63.8 1.7 4.3 4/20/2000 Measured 1562 5.2 6.2 1.4 3.4 5/2/200 Measured 1168 5 1.0 47.6 1.4 3.4 6/6/2000 Measured 1168 5 2 1.4 3.5 1.4 3.5 6/6/2000 Measured 1105 5.2 7 8 43.2 1.4 3.5 7/10/2000 Measured 1370 5 6 44.3 1.3 2.7 8/9/2000 Measured 157 5 6 44.3 1.1 6	JB-1	10/19/1999	Measured	395		5.2			*****	26	92	45.3	***	A 1 1 Channess of secondarians	706	2
12/2/1999 Measured 480 5.5 1.4 3.1 1/11/2000 Measured 430 5.6 1.4 3.1 2/2/2000 Measured 379 5.5 1.4 3.4 4/20/2000 Measured 1552 5.2 1.0 46.1 1.2 3.4 4/20/2000 Measured 1562 5.2 6.8 1.7 4.3 5/2/2000 Measured 1168 5.2 1.4 3.4 6/8/2000 Measured 1355 5.2 78 43.2 1.4 3.5 7/10/2000 Measured 1105 5.2 78 43.2 1.4 3.5 8/9/2000 Measured 1370 5.5 78 43.2 1.4 3.5 8/9/2000 Measured 1370 5.5 78 44.3 1.3 2.7 8/9/2000 Measured 874 5.0 76 46.7 1.6 3.9	J- 07	11/2/1999	Measured	466						24	84	49.3	·	THE TAX AS A SECTION AS A SECTI	687	2
1/11/2000 Measured 430 5.6 40 88 52.6 1.4 3.1 2/2/2000 Measured 379 5.5 3.4 100 46.1 1.2 3.4 3/6/2000 Measured 1552 5.2 6.2 6.3 1.7 4.3 5/2/2000 Measured 1168 5.2 8 47.6 1.4 3.4 6/8/2000 Measured 1105 5.2 7 7 4.3 7 8/9/2000 Measured 1370 5.2 78 44.3 1.3 2.7 9/14/2000 Measured 874 5.0 9 46.7 1.6 3.9	JB-1	12/2/1999	Measured	480		5.5	and the second s	V-1-7-1		34	888	47.2			822	9
2/2/2000 Measured 379 5.5 4.3 3/6/2000 Measured 629 5.3 1.7 4.3 4/20/2000 Measured 1562 5.2 5.2 1.0 47.6 1.4 3.4 5/2/2000 Measured 1168 5.2 2 1.4 8.8 43.2 1.4 3.5 7/10/2000 Measured 1376 5.2 7 8 43.2 1.4 3.5 8/9/2000 Measured 1370 5.2 7 8 6 44.3 1.3 2.7 9/14/2000 Measured 874 5.0 9 46.7 16 3.9	JB-1	1/11/2000	Measured	430		5.6	The second secon		V	49	88	52.6		3	701	10
3/6/2000 Measured 629 5.3 1.7 4.3 4/20/2000 Measured 1552 5.2 1.0 47.6 1.4 3.4 6/8/2000 Measured 1168 5.2 7 88 43.2 1.4 3.5 7/10/2000 Measured 1105 5.2 78 7 1.3 2.7 8/9/2000 Measured 1370 5.5 7 44.3 1.3 2.7 9/14/2000 Measured 874 5.0 1.6 3.9	JB-1	2/2/2000	Measured	379		5.5	, m,			8	100	46.1	1.2		786	2
4/20/2000 Measured 1562 5.2 24 110 47.6 1.4 3.4 5/2/2000 Measured 1168 5.2 24 88 43.2 1.4 3.5 7/10/2000 Measured 1370 5.2 78 7 7 8/9/2000 Measured 1370 5.5 7 7 7 9/14/2000 Measured 874 5.0 7 1.6 3.9	JB-1	3/6/2000	Measured	629		5.3				32	108	63.8	1.7		680	10
5/2/2000 Measured 1168 5.2 24 88 43.2 1.4 3.5 7/10/2000 Measured 1105 5.2 78 78 78 77 8/9/2000 Measured 1370 5.5 78 73 77 9/14/2000 Measured 1370 5.0 70 70 70 9/14/2000 Measured 874 5.0 70 70 70 70 9/14/2000 Measured 874 5.0 70 70 70 70 70 70	JB-1	4/20/2000	Measured	1552		5.2				24	110	47.6			624	2
6/8/2000 Measured 135 5.2 71/10/2000 88 43.2 1.4 3.5 7/10/2000 Measured 1105 5.2 78 78 78 77 8/9/2000 Measured 1370 5.5 62 44.3 1.3 2.7 9/14/2000 Measured 874 5.0 16 3.9	JB-1	5/2/2000	Measured	1168						The state of the s						
7/10/2000 Measured 1105 5.2 78 78 78 77 8/9/2000 Measured 1370 5.5 88 62 44.3 1.3 2.7 9/14/2000 Measured 874 5.0 94 46.7 1.6 3.9	JB-1	6/8/2000	Measured	1335		5.2	AV-7	***		24	88	43.2	4.1	3.5	663	9
8/9/2000 Measured 1370 5.5 44.3 1.3 2.7 9/14/2000 Measured 874 5.0 19 94 46.7 1.6 3.9	1-8-	7/10/2000	Measured	1105		5.2	***************************************			22	78		manners of the second s		577	2
9/14/2000 Measured 874 5.0 19 94 46.7 1.6 3.9	JB-1	8/9/2000	Measured	1370		5.5				38	62	44.3	1.3	2	609	4
	JB-1	9/14/2000	Measured	874		5.0				19	94	46.7	1.6	3.	646	2

Raccoon Creek Database (940104)

Sample Point	Date	Method of Flow Meas.	Flow (gpm)	Field pH	Lab рH	Spec. cond. (umhos/cm)	Field Temp (C)	Alk. (Field) (mg/L)	Alk. (lab) (mg/L)	Acidity (mg/L)	Iron (mg/L)	Manganese (mg/L)	Aluminum (mg/L)	Sulfate (mg/L)	Susp. Solids (mg/L)
JB-1	10/3/2000	Measured	770		5.1				22	100	40.9	1.5	3.7	9/9	4
JB-1	11/1/2000	Measured	674		5.2				24	98	46.6	1.5	3.8	638	22
JB-1	12/4/2000	Measured	504		5.3				24	104	53.2	1.6	3.9	761	10
JB-1	1/8/2001	Measured	585	THE PART OF THE PA	5.4	A TO		100 100 100 100 100 100 100 100 100 100	28	94	51.6	1,5	3.7	760	17
JB-1	2/5/2001	Measured	077		5.5	O C A - 111 (111 (111 (111 (111 (111 (111 (34	88	53.6	1.6	3.5	754	80
JB-1	3/7/2001	Measured	847	1 15 75 7 1 15 7 4 m from management	5.4	11 V V V V V V V V V V V V V V V V V V			30	92	54.6	1.4	3.3	708	26
JB-1	4/16/2001	Measured	1515		5.2			And the state of t	18	88	38.2	1.2	3.1	595	9
- B -	5/9/2001	Measured	1441		4.9				17	90	46.3	1.4	4.5	643	9
JB-1	6/5/2001	Measured	1105		5.0				18	112	46.7	1,6	4.6	581	9
JB-1	7/10/2001	Measured	770		5.1	William (1974) (19	116	51.8	1.7	4.5	909	14
JB-1	8/2/2001	Measured	674		5.1				22	118	51.7	1.6	4.2	909	10
JB-1	10/25/2001	Measured	379		5.2	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			28	112	55.1	1.6	3.5	875	80
JB-1	11/7/2001	Measured	363	7.7.7.7. V	5.3				28	128	53.0	1.5	3.6	793	9
JB-1	12/3/2001	Measured	430	TOPIC OF STATE AND ADDRESS OF THE STATE ADDRESS OF THE STATE AND ADDRESS OF THE STATE ADDRESS OF THE STATE ADDRESS OF THE STATE AND ADDRESS OF THE	5.3	100 TO THE TOTAL THE			34	105	58.6	1,6	3.0	691	20
JB-1	1/29/2002	Measured	412		5.6				42	117	58.2	1.5	2.8	757	2
JB-1	2/11/2002	Measured	412		5.5		-		44	119	58.8	1.6	2.9	592	2
JB-1	3/20/2002	Measured	629		5.6				40	150	57.4	1,57	2.8	503	12
JB-1	4/22/2002	Measured	901		5.5				36	107	47.0	1.3	2.5	587	4
JB-1	5/28/2002	Measured	1370		5.2	The first of the second			22	109	53.2	1,5	3.55	552	14
JB-1	6/24/2002	Measured	1370		5.0	\$10 Accession 100 Accession 10			22	130	51.6	1.6	4.1	550	16
1-8	7/22/2002	Measured	985		5.4	A CONTRACTOR OF THE CONTRACTOR			20	122	51.6	1,1	4.5	099	8
JB 1	8/7/2002	Measured	901		5.2				19	131	63.8	1.9	4.8	749	4
JB-1	9/16/2002	Measured	209		5.2				26	136	56.7	1.6	3.8	849	10
JB-1	10/28/2002	Measured	504		5.5	V 75 7 7 1			32	131	54.7	1.5	3.2	1.3	28
1.8 .	11/25/2002	Measured	430		5.5				42	102	53.6	1.5	2.8	808	28
JB-1	12/11/2002	Measured	379		5.3	A Commence of the Commence of			32	120	61.3	1	3.7	427	14
JB-1	1/17/2003	Weir	674	5.5	5.7	1481	10		30	26	49.6	1.6	2.4	768	10
-8- -1-	12/7/2005			4.8	4.6	1713	7		3	244	100.5	2.4	14.4	1080	8

					Spec. cond.	Field	Alk. (Field)	Alk. (lab)	Acidity	Iron	Manganese	Aluminum 5	Sulfate S	Ä
Sample Point Date	Flow Meas.	(mdb)	Field pH Lab ph	Lab рН	(nuhos/cm)	Temp (C)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Min		363	4.8	4.3	1481	10		2	62	23.9	<u></u>	2.4	11,	_
Max		1552	5.5	5.7	1713	11		44	244	100.5	2.4	14.4	1080	36
Avg		843	5.1	5.0	1597	=		21	119	47.2	1.5	4.9	658	8
Range		1189	0.8	4	232	-		42	182	76.6	1.3	12.0	696	35

Description: Abandoned mine discharge; AKA CV 103; Raccon Creek Watershed

Sample Point	Date	Method of Flow Flow Meas. (gpm) Field pH Lab pH	Flow (gpm)	Field pH	ab pH	Spec. cond. (umhos/cm)	Field Temp (C)	Alk. (Field) (mg/L)	Alk. (lab) (mg/L)	Acidity (mg/L)	Iron (mg/L)	Manganese (mg/L)	Aluminum (mg/L)	n Sulfate S (mg/L)	Susp. Solids (mg/L)
JB-1B	12/7/2005			4.8	4.6	1708	12		2	240	91.0	2.4	14.6	1063	ဧ
	Min			4.8	4.6	1708	12	_	2	240	91.0	2.4	14.6	1063	3
	Max			4,8	4.6	1708	12	_	2	240	91.0	2.4	14,6	1063	3
,	Avg			4.8	4.6	1708	12	-	2	240	91.0	2.4	14.6	1063	3
	Range			0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0	0

Description: Abandoned Mine Discharge; Sampled at watercourse of JB1 discharge just prior to confluence with side channel of Raccoon Creek

Sample Point	Date	Method of Flow Flow Meas. (gpm) Field pH Lab pH	Flow (gpm)	Field pH	Lab pH	Spec. cond. (umhos/cm)	Field Temp (C)	Alk. (Field) (mg/L)	Alk. (lab) (mg/L)	Acidity (mg/L)	Iron (mg/L)	Manganese Aluminum (mg/L)	Aluminum (mg/L)	Sulfate (mg/L)	Sulfate Susp. Solids (mg/L) (mg/L)
Key's Road	10/16/2000			6.5	9.9				76	0	18.3	1.3	2.0	522	22
Key's Road	4/29/2001			7.3	7.1	A STATE OF THE STA			154	0	7.5	0.5	1.0	263	30
Key's Road	10/14/2001			6.4	6.2	The second secon			40	34	22.4	1.9	7.0	345	20
Key's Road	8/6/2002			6.5	6.2				26	11	42.1	2.3	2.7	866	24
	Min			6.4	6.2				26	0	7.5	9.0	0.7	263	20
	Max			7.3	7.1				154	77	42.1	2.3	2.7	866	30
	Avg			6.7	6.5				74	28	22.6	1.5	1.3	499	24
X.	Range	7,7,7		6.0	6.0				128	77	34.6	1.8	2.0	603	10

Description: Raccoon Creek about 3/4 mile downstream of JB1

Susp. Solids (mg/L)				41 1 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1					manuscript of the state of the		A. C.					-
Sulfate (mg/L)	7.5	85	141	135	58	51	7.1	121	98	129	53	29	51	141	83	06
Aluminum (mg/L)	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5	0.55	0.5	0.5	0.5	0.5	1.0	0.5	0.5
Manganese Aluminum Sulfate (mg/L) (mg/L)	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0,1	0.1	0.5	0.1	0.4
Iron (mg/L)	0.5	0.3	0.4	0.3	0.3	1.3	0.3	0.3	0.3	0.8	0.3	0.3	0.3	1.3	0.5	0.
Acidity (mg/L)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alk. (lab) (mg/L)	160	200	180	166	162	118	168	188	192	210	200	200	118	210	179	92
Alk. (Field) (mg/L)		manananananananan dan constructiva del		mana a a a a a a a a a a a a a a a a a a			The second secon					ACTION AND ACTION AND ACTION ASSESSMENT AND ACTION ASSESSMENT ASSE				
Field Temp (C)		A		Andrew commence commence and a first of the			4 × 7 / 1111									
Spec. cond. (umhos/cm)				Antenna Antenn								No Ferrence Commence Superior (No. 17 and No. 17 and No				
Lab pH	7.3	7.7	7.4	7.4	7.9	7.5	8.3	7.9	8.1	7.8	7.7	7.9	7.3	8.3	7.7	1.0
Flow (gpm) Field pH Lab p				V VI S III V												
Flow (gpm)				A		, , , , , , , , , , , , , , , , , , ,										
Method of Flow Meas.		Annual of the state of the stat									VIII) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1					
Date	8/9/1999	10/18/1999	11/15/1999	12/1/1999	1/10/2000	2/16/2000	3/7/2000	4/2/2000	5/15/2000	6/27/2000	7/24/2000	8/28/2000	Min	Max	Avg	Range
Sample Point	SL-1	SI.1	SL-1	S-3	SL-1	SL-1	SL-1	SL-1	SL-1	SL-1	SL1	SL-1		10 1010 minut 1011 to minut 10 1000 minut 10		

Description: Raccoon Creek about 1/4 mile upstream of JB1